

WHAT IS CLAIMED IS:

1                   1.     A dischargeable storage device instantaneously moveable  
2 between a store position and a discharge position, the dischargeable storage device  
3 comprising:

4                   a deck having an aperture therethrough and a pair of pivotable trap  
5 doors, each door having a guide post; and

6                   a plunger moveable within the aperture and having two guide  
7 channels, each guide channel adapted to cooperate with one of the guide posts such  
8 that when the plunger is depressed, the guide posts travel along the guide channels  
9 allowing the trap doors to open.

1                   2.     The deck of claim 1 further comprising a pivot bracket  
2 attached to the deck and wherein the trap doors are pivotally attached to the bracket.

1                   3.     The apparatus of claim 1 further comprising a spring  
2 positioned between a portion of the plunger and the deck such that the spring biases  
3 the plunger upwards to maintain the trap doors closed.

1                   4.     The deck of claim 1  
2 wherein the deck comprises an edge proximate the aperture;  
3 wherein the plunger comprises a central vertical opening having an  
4 upper end and a lower end; and  
5 the dischargeable storage device further comprises a spring retained  
6 between the upper end of the central opening of the plunger and the edge proximate  
7 the aperture, the spring upwardly biasing the plunger to maintain the trap doors  
8 closed.

1                   5.     The deck of claim 1 wherein the deck is made out of acetyl  
2 material.

1                   6.     An apparatus for evenly distributing predetermined portions  
2 of food over a surface comprising:

3 a frame adapted to be superimposed over the surface to receive the  
4 food;

5 a screen mounted on the frame and being of conical configuration and  
6 converging away from the direction of the surface to receive the food, the screen  
7 having an axis and a plurality of openings defined therein through which the food  
8 may fall;

9 a hopper mounted on the frame in spaced relationship above the  
10 screen having a food confinement portion substantially aligned with the screen axis;  
11 and

12 a dischargeable storage device substantially aligned with the screen  
13 axis, the dischargeable storage device instantaneously movable between a store  
14 position in which the food is stored and a release position wherein the food is  
15 permitted to fall through the dischargeable storage device and onto the screen, the  
16 food separating and being substantially evenly distributed below the screen over the  
17 surface upon the food engaging the screen and the food falling therethrough, the  
18 dischargeable storage device comprising:

19 a deck having an aperture therethrough and a pair of pivotable trap  
20 doors, each door having a guide post; and

21 a plunger moveable within the aperture and having two guide  
22 channels, each guide channel adapted to cooperate with one of the guide posts such  
23 that when the plunger is depressed, the guide channels force the guide posts thereby  
24 opening the trap doors.

1 7. The apparatus of claim 6 further comprising a pivot bracket  
2 attached to the deck wherein the trap doors are pivotably secured to the bracket.

1 8. The apparatus of claim 6 further comprising a spring  
2 positioned between a portion of the plunger and the deck such that the spring biases  
3 the plunger upwards to maintain the trap doors closed.

1 9. The apparatus of claim 6  
2 wherein the deck comprises an edge proximate the aperture;

3                    wherein the plunger comprises a central vertical opening having an  
4 upper end and a lower end; and  
5                    the dischargeable storage device further comprises a spring retained  
6 between the upper end of the central opening of the plunger and the edge proximate  
7 the aperture, the spring upwardly biasing the plunger to maintain the trap doors  
8 closed.

1                    10.     The apparatus of claim 6 wherein the screen comprises a cone  
2 at the apex of the screen, the cone in substantial alignment with the dischargeable  
3 storage device.

1                    11.     The apparatus of claim 6 further comprising:  
2 a generally U-shaped bracket secured to the deck;  
3 wherein the pivotable trap doors are pivotally attached to the U-  
4 shaped bracket.

1                    12.     The apparatus of claim 6 wherein the plunger has a top surface  
2 having plurality of depressing thereon.

1                    13.     The apparatus of claim 6 further comprising a support and  
2 wherein the frame is placed on the support over the surface to receive the food.

1                    14.     The apparatus of claim 13 wherein the support comprises a  
2 plurality of inwardly projecting braces to support the frame.

1                    15.     An apparatus for evenly distributing predetermined portions  
2 of food over a surface comprising:  
3 a support superimposed over the surface to receive the food;  
4 a frame adapted to be supported by the support;  
5 a screen mounted on the frame and being of conical configuration and  
6 converging away from the direction of the surface to receive the food, the screen  
7 having an axis and a plurality of openings defined therein through which the food  
8 may fall;

9                   a hopper mounted on the frame in spaced relationship above the  
10 screen having a food confinement portion substantially aligned with the screen axis;  
11 and

12                   a dischargeable storage device substantially aligned with the screen  
13 axis, the dischargeable storage device instantaneously movable between a store  
14 position in which the food is stored and a release position wherein the food is  
15 permitted to fall through the dischargeable storage device and onto the screen, the  
16 food separating and being substantially evenly distributed below the screen over the  
17 surface upon the food engaging the screen and the food falling therethrough, the  
18 dischargeable storage device comprising:

19                   a deck having an aperture therethrough and a pair of pivotable trap  
20 doors, each door having a guide post; and

21                   a plunger moveable within the aperture and having two guide  
22 channels, each guide channel adapted to cooperate with one of the guide posts such  
23 that when the plunger is depressed, the guide channels force the guide posts thereby  
24 opening the trap doors.

1                   16.    An apparatus for evenly distributing predetermined portions  
2 of food over a surface comprising:

3                   a frame adapted to be superimposed over the surface to receive the  
4 food;

5                   a screen mounted on the frame and being of conical configuration and  
6 converging away from the direction of the surface to receive the food, the screen  
7 having an axis and a plurality of openings defined therein through which the food  
8 may fall;

9                   a hopper mounted on the frame in spaced relationship above the  
10 screen having a food confinement portion substantially aligned with the screen axis;

11                   a dischargeable storage device substantially in alignment with the  
12 screen axis, the dischargeable storage device instantaneously movable between a  
13 store position in which the food is stored and a release position wherein the food is  
14 permitted to fall through the dischargeable storage device and onto the screen, the  
15 food separating and being substantially evenly distributed below the screen over the  
16 surface upon the food engaging the screen and the food falling therethrough; and

17                    wherein the screen further comprises a cone at the apex of the screen,  
 18    the cone in alignment with the dischargeable storage device so that the food  
 19    discharged from the dischargeable storage device falls onto the cone and is more  
 20    evenly distributed.

1                    17.    The apparatus of claim 16 wherein the frame comprises a  
 2    plurality of posts projecting inwardly, each post comprising a cut-out portion, and  
 3    wherein the screen comprises support portions sized to be received in the cut-out  
 4    portions.

1                    18.    The apparatus of claim 16 wherein the cone comprises a point  
 2    and cut-out portion around the point.

1                    19.    The apparatus of claim 16 further comprising a support and  
 2    wherein the frame is placed on the support over the surface to receive the food.

1                    20.    The apparatus of claim 19 wherein the support comprises a  
 2    plurality of inwardly projecting braces to support the frame.

1                    21.    A retaining clip for securing an article to a wall having an  
 2    elongated mounting aperture, the retainer clip having first and second ends  
 3    comprising:

4                           a mounting stud stop;  
 5                           the mounting stud having a mounting stop at its first end; and  
 6                           at least two tensioning arms proximate a second end of the mounting  
 7    stud, the tensioning arms providing tension against the wall when the retaining clip  
 8    is attached to the wall such that the mounting stop is forced into the wall.

1                    22.    The retaining clip of claim 2 further comprising a pair of lips  
 2    to secure an object therebetween.

- 1                    23.    The retaining clip of claim 22 further comprising a retaining
- 2    plug adapted to cooperate with a second aperture in the wall to prevent vertical
- 3    movement of the retaining clip.